

8113 West Sherman Street Tel: 602.233.9166 Tolleson, AZ 85353-4025 Fax: 623.936.9164

May 22, 2003

Mr. Gerald Thompson Environmental Assistant Alaskan Copper Works P. O. Box 3546 Seattle, WA 98124-3546

Dear Mr. Thompson:

Enclosed is the appropriate copy of your company's Hazardous Waste Manifest resulting from the transfer of recyclable materials to World Resources Company.

Please note that in accordance with 40 CFR §262.40, this copy of the manifest must be retained as a record for at least three (3) years from the date the waste was accepted by the initial transporter.

If you have any questions, please feel free to give us a call.

Sincerely,

World Resources Company

Manifest Coordinator

Enclosures

WORLD RESOURCES 11,42AH 05/20/2003 GROSS 634 15 TARE NET 52 1b 582 1b WORLD RESOURCES 11:43AN 05/20/2003 GROSS 680 15 52 lb TARE 52 16 NET 628 16 WORLD RESOURCES 11:45AM 05/20/2003 GROSS 589 16 TARE 52 16 NET 537 16 WORLD RESOURCES 11:46AM 05/20/2003 6ROSS 487 1b TARE 52 1b NET 635 1b 52 1ь WORLD RESOURCES 11:48AM 05/20/2003 GROSS 600 1.6 TARE 52 1.6 NET 548 1.6 WORLD RESOURCES 11:49AM 05/20/2003 GROSS 549 1b TARE 52 15 NET 497 15 WORLD RESOURCES 11:51AM 05/20/2003 6R099 GROSS 555 1.6 TARE 52 1.6 NET 503 1.6 WORLD RESOURCES 11:\$2AM 05/20/2003 GROSS 483 lb TARE 52 16 NET 431 1b WORLD RESOURCES 11:54AM 05/20/2003 GROSS 469 1b TARE 52 1b NET 417 1b WORLD RESOURCES 11:55AN 05/20/2003 GR055 438 1b

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Style CF 17 LABEL ASTER ® (800) 621-5808 www.labelmaster.com

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

PRINTED ON RECYCLED PAPER PRINTED WITH USING SOYBEAN INK

GENERATOR COPY

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA II	Doci	ifest ument No. ろここ					the shaded areas by Federal law.
3.	Generator's Name and Mailing Address		A. S	tate Manif	fest Doc	ument	Number		
	Alaskan Copper Works P.O. Box 3546, Seattle,		B. State Generator's ID						
4.	Generator's Phone (206) 382-				р. э	tate Gene	nators i		
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EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

FILE COPY OR STATE COPY



MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME: Hazardous waste, solid, n.o.s., (F006), 9, NA3077, III

NORTH AMERICAN **EMERGENCY** RESPONSE

TAKEN FROM GUIDE 171 OF THE NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK

(Underlined text applies directly to the material listed above)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- 1. Some may burn, but none ignite readily.
 2. Some may polymerize (P) explosively when heated or involved in a fire.
- 3. Containers may explode when heated.
- 4. Some may be transported hot.

HEALTH

- 1.Inhalation of material may be harmful.
- 2. Contact may cause burns to skin and eyes.
- 3.Inhalation of Asbestos dust may have a damaging effect on the lungs.
- Eire may produce irritating, corrosive and/or toxic gases.
- 5. Runoff from fire control may cause pollution

PUBLIC SAFETY

- 1. CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "WORR") 2. Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
- 3. Keep unauthorized personnel away.
- 4. Stay upwind.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
 Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Fire

1.If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions

FIRE

EMERGENCY RESPONSE

Small Fires

Dry chemical, CO₂, water spray or regular foam.

- Water spray, fog or regular foam.
- 2 Move containers from fire area if you can do it without risk
- 3. Do not scatter spilled material with high pressure water streams
- Dike fire-control water for later disposal.
- Fire Involving Tanks:
- 1.Cool containers with flooding quantities of water until well after fire is out.
- 2. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
 3. ALWAYS stay away from the ends of tanks.

SPILL OR LEAK

- 1.Do not touch or walk through spilled material.
- 2 Stop leak if you can do it without risk
- 3. Prevent dust cloud.
- 4. Avoid inhalation of asbestos dust.

Small Dry Spills

- 1.With clean shove! place material into clean, dry container and cover loosely; move containers from spill area. Small Spills
- 1. Take up with sand or other noncombustible absorbent material and place into containers for later disposal. Large Spills

- Dike far ahead of liquid spill for later disposal.
 Cover powder spill with plastic sheet or tarp to minimize spreading.
 Prevent entry into waterways, sewers, basements or confined areas.

FIRST AID

- 1. Move victim to fresh air
- 2.Call emergency medical care
- 3. Apply artificial respiration if victim is not breathing
- 4.Administer oxygen if breathing is difficult.
- 5 Remove and isolate contaminated clothing and shoes
- 6. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
 7. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME: Hazardous waste, solid, n.o.s., (D007), 9, NA3077, III

NORTH AMERICAN **EMERGENCY** RESPONSE

TAKEN FROM GUIDE 171 OF THE NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK

(Underlined text applies directly to the material listed above)

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- 2. Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind.

PROTECTIVE CLOTHING

- 1. Wear positive pressure self-contained breathing apparatus (SCBA).
- 2. Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Fire

1.If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

FIRE

EMERGENCY RESPONSE

Small Fires

1. Dry chemical CO2, water spray or regular foam.

Large Fires:

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- 3. Do not scatter spilled material with high pressure water streams.
- Dike fire-control water for later disposal.

Fire Involving Tanks:

- 1.Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- 3.ALWAYS stay away from the ends of tanks.

SPILL OR LEAK

- 1.Do not touch or walk through spilled material.
- 2.Stop leak if you can do it without risk.3.Prevent dust cloud.
- 4. Avoid inhalation of asbestos dust.

Small Dry Spills

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- 4.Administer oxygen if breathing is difficult.
- 5. Remove and isolate contaminated clothing and shoes
- 6. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- 7. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Material Safety Data Sheet

D007 Recyclable Material (Filter Cake)

Recycler's Facility Name and Site Address:

World Resources Company

8113 West Sherman Street Tolleson, Arizona 85353-4025 Tel.: 602/233-9166 Fax: 623/936-9164

January 2002 DLS

Call CHEMTREC only in the event of emergencies during shipping that involve a spill, leak, fire, or accident (all calls are recorded).

For emergencies during shipping in the US or Canada, day or night, call: CHEMTREC 800/424-9300.

(Use CHEMTREC Company Code "WORR".) For calls from other countries, call COLLECT: 703/527-3887

Section 1

EPA Waste Classification: D007 Generic Name: Chromium-Bearing Filter Cake

Chemical Family: Metallic (Hydroxide) Participates Synonym: Nonferrous Metal Hydroxide Filter Cake

Material Identification DOT Shipping Name: RQ, Hazardous waste solid, n.o.s., (D007)

DOT Hazard Class: 9; Packing Group: III.

DOT Identification Number: NA 3077

Guide 171 of The North American Emergency Response Guidebook applies.

Section 2					Hazardous Ingredic	avote
Ingredient: Copper Hydroxide Nickel Hydroxide Calcium Hydroxide Diatomite Chromic Hydroxide	CAS Number: 20427-59-2 12054-48-7 1305-62-0 61790-53-2 1308-58-1	Content%: 0-30 0-15 0-15 0-10 1-20	ACGIH-TLV 1.0 mg(Cu)/m³ 1.0 mg(Ni)/m³ 5.0 mg(Ca)/m³ 10.0 mg/m³ 0.05 mg(Cr)/m³	(dust) (dust) (dust) (dust) (dust) (dust)	Toxicology (rat, oral): LD-50 1,000 mg/kg LD-50 1,500 mg/kg LD-50 7,340 mg/kg LD-50 not determined LD-50 not determined	

Vapor Pressure: insignificant.

Polymerization: will not occur.

Density: 50-90 lbs./cu ft.

Stability: avoid contact with acids.

Section 3

Description: solid, clay-like, gray/green to brown, water content 30-80% Specific Gravity: 2.5 to 3.5 Solubility: insoluble in water.

Incompatible Reactivity: none known.

Physical and Reactivity Data

Boiling Point: above 2600°C Melting Point: above 1800°C

pH: 7.0 to 10.0 Odor: nil.

Section 4

Flashpoint: nonflammable. Special Firefighting Procedures: none. Product Decomposition (due to fire or explosion): none.

Oxidation: non-oxidizing. Explosion Potential: nonexplosive.

NFPA Fire Diamond



Section 5

Listed Carcinogenic Components: nickel, chromium

Toxicology: see Section 2.

Route of Entry: inhalation and ingestion.

ection 6

Health Effects and First Aid

Inhalation: Ingestion:

Eyes:

Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms. Rare. Induce vomiting and call a physician—but never induce vomiting or give a liquid to an unconscious person. Dust may irritate eyes. Wash with copious amounts of water for 15 minutes. If effects persist, call a physician.

Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.

Long-Term:

Long-term chronic over-exposure may affect the following target organs or body systems: blood; digestive; respiratory; lungs; liver; kidneys; and skin.

Comments:

Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney

damage, mental-sensitive skin, or skin lesions.

Section 7

Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment (PPE) be used by personnel who will come in contact with the material. The PPE should include eye protection, respirator and gloves.

Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled, to Storage:

avoid inhalation or ingestion. Store in a dry area under cover to protect from rain or snow.

Use cleaning procedures that avoid creating excessive dust. Vacuum when possible.

Package material and ship to World Resources Company at the address shown above.

Section 8

Control Measures

Respiratory Protection: NIOSH-MSHA approved respirators as required. Other Protective Equipment: coveralls are recommended but not required.

Eye Protection: safety glasses are recommended. Hand Protection: gloves are recommended.

Section 9

Generator's Verification

This MSDS describes the recyclable material listed in the attached Manifest Number:

Signature

★Date **★**

Alaskan Copper Works

P.O. Box 3546. Seattle, WA 98124 **★**Company Name and Address

206-382-8379



WORLD RESOURCES COMPANY

In partnership with the environment

LDRN LAND DISPOSAL RESTRICTION NOTICE





ISO 14001 Certified Recycling Facility

A copy of this Notice must be retained by the Generator for at least three (3) years, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8). Moreover, the Generator should check the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation--and, typically, State analogues as well--requires the retention period to be extended further in specified cases.

To: N	ORLD RESOURCES COMPA	NY 8113	8113 West Sherman Street, Tolleson AZ 85353-4025				
From: C	OMPANY NAME:	COMP	ANY ADDRESS:				
A	askan Copper Works	P.O. Bo	ox 3546, Seattle, WA 98124				
MANIN			DATE OF SHIPMENT:	05-14-03			

This shipment of material is subject to the land disposal restrictions of 40 CFR Part 268. The applicable land disposal restriction information, provided in accordance with 40 CFR §268.7(a)(2), is as shown in this table ♥

EPA Material	Treatability	CFR Reference for
Number	Group	Treatment Standards
D007	non-wastewater	40 CFR §268.40

DATE:

SIGNATURE: TITLE: NAME PRINTED:

Instructions

for the Completion of this Land Disposal Restriction Notice (**D007** LDRN)

This LDRN has been prepared based on a listed material--D007--as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice [as stated in 40 CFR §268.7(a)(2)].

If your material is described by additional "D" characteristic EPA waste codes, then they must each be included on the LDR Notice.

NOOT GENERATORS









ISO 9001 & ISO 14001 Certified Recycling Facility

1F 0 0 5

A copy of this Notice must be retained by the Generator for at least three (3) years, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8). Moreover, the Generator should check the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation--and, typically, State analogues as well-requires the retention period to be extended further in specified cases.

To: WO	RLD RESOURCES COMPANY	8113 We	st Sherman Stree	t, Tolleson AZ 85353-	4025	
,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			ADDRESS: 46. Seattle, WA 98124	1011C3011 A2 03033-4023		
MANIFES NUMBER			DATE OF SHIPMENT:	05-14-03		

This shipment of material is subject to the land disposal restrictions of 40 CFR Part 268. The applicable land disposal restriction information, provided in accordance with 40 CFR §268.7(a)(2), is as shown in this table ■

EPA Material	Treatability	CFR Reference for		
Number	Group	Treatment Standards		
F006	non-wastewater	40 CFR §268.40		

SIGNATURE:	And		TITLE:	Ewironmente!	Spec,	
NAME PRINTED:	GERALD	A. Thompson	DATE:	05-14-03		

Instructions for Completion of this Land Disposal Restriction Notice [LDRN]

This LDRN has been prepared based on a listed material--F006--as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice [as stated in 40 CFR §268.7(a)(2)].

An F006 designation on the LDRN includes the following constituents: cadmium [D006], chromium [D007], lead [D008], silver [D011], cyanide, and nickel. However, the designation does not include arsenic [D004], barium [D005], mercury [D009], or selenium [D010]. If your F006 material contains any of those four constituents not included in the F006 designation, then use the following instructions.

In determining the need for any additional entries on the LDRN for the F006 material, the levels of arsenic, barium, mercury and selenium must be examined to determine if the levels equal or exceed the threshold concentrations of constituents for the Toxicity Characteristic limit as identified in 40 CFR §261.24 (Table 1), as shown in the left-hand column of the table below [as stated in 40 CFR §268.9].

If (after testing or based upon the generator's knowledge of the material) each metal level does not equal the Toxicity Characteristic level shown below, then no additional entry is required on the LDR Notice. If the level is known to be or determined to be equal to or above the limit shown below for any of these metals, then the appropriate information corresponding to that individual metal (in the right-hand column below) must be added to the LDR Notice.

i	EINFORMATION CHARACTERISTIC	APPROPRIATE ENTRY ON LDR NOTICE					
Metal	Concentration Level	EPA Material Number	Treatability Group	CFR Reference for Treatment Standards			
ARSENIC	5.0 mg/l	D004	non-wastewater	40 CFR §268.40			
BARIUM	100 mg/l	D005	non-wastewater	40 CFR §268.40			
MERCURY	.02 mg/l	D009	non-wastewater	40 CFR §268.40			
SELENIUM	1.0 mg/l	D010	non-wastewater	40 CFR §268.40			

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Material Safety Data Sheet

F006 Recyclable Material (Filter Cake)

Recycler's Facility Name and Site Address:

World Resources Company

8113 West Sherman Street Tolleson, Arizona 85353-4025 Tel.: 602/233-9166 Fax: 623/936-9164 January 2002 DLS

Call CHEMTREC only in the event of emergencies during shipping that involve a spill, leak, fire, or accident (all calls are recorded).

For emergencies during shipping in the US or Canada, day or night, call: CHEMTREC 800/424-9300.

(Use CHEMTREC Company Code "WORR".) For calls from other countries, call COLLECT: 703/527-3887

Section 1

EPA Waste Classification: F006

Generic Name: Electroplating/Metal-Finishing Wastewater Treatment Sludge

Chemical Family: Metallic (Hydroxide) Participates Synonym: Nonferrous Metal Hydroxide Filter Cake

Material Identification DOT Shipping Name: RQ, Hazardous waste solid, n.o.s., (F006)

DOT Hazard Class: 9; Packing Group: III. DOT Identification Number: NA 3077

Guide 171 of The North American Emergency Response Guidebook applies.

Section 2				Hazardous Ingredients
Ingredient: Copper Hydroxide Nickel Hydroxide Calcium Hydroxide Diatomite Aluminum Hydroxide	CAS Number: 20427-59-2 12054-48-7 1305-62-0 61790-53-2 21645-51-2	Content%: 0-30 0-15 0-15 0-10 0-10	ACGIH-TLV: 1.0 mg(Cu)/m³ (du 1.0 mg(Ni)/m³ (du 5.0 mg(Ca)/m³ (du 10.0 mg/m³ (du 2.0 mg(Al)/m³ (du	Toxicology (rat, oral): st) LD-50 1,000 mg/kg st) LD-50 1,500 mg/kg st) LD-50 7,340 mg/kg st) LD-50 not determined

Section 3

Description: solid, clay-like, gray/green to brown, water content 30-80% Specific Gravity: 2.5 to 3.5 Solubility: insoluble in water.

Vapor Pressure: insignificant. Stability: avoid contact with acids. Polymerization: will not occur. Density: 50-90 lbs./cu ft.

Physical and Reactivity Data Boiling Point: above 2600°C Melting Point: above 1800°C

Fire and Explosion Data

pH: 7.0 to 10.0 Odor: nil.

Section 4

Flashpoint: nonflammable. Special Firefighting Procedures: none.

Incompatible Reactivity: none known.

Product Decomposition (due to fire or explosion): none.

Oxidation: non-oxidizing.

Explosion Potential: non-explosive.

NFPA Fire Diamond

Section 5

Listed Carcinogenic Components: nickel

Toxicology: see Section 2.

Route of Entry: inhalation and ingestion.

Section 6

Health Effects and First Aid Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Inhalation: Ingestion: Rare. Induce vomiting and call a physician—but never induce vomiting or give a liquid to an unconscious person. Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes. If effects persist, call a physician. Skin:

Dust may irritate skin, causing forms of eczema. Wash with soap and water.

Long-Term: Long-term chronic over-exposure may affect the following target organs or body systems: blood; digestive; respiratory; lungs; liver; kidneys; and skin.

Comments:

Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage,

mental-sensitive skin, or skin lesions.

Section 7 Handling:

Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment (PPE) be

used by personnel who will come in contact with the material. The PPE should include eye protection, respirator and gloves. Storage:

Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled, to avoid inhalation or ingestion. Store in a dry area under cover to protect from rain or snow. Use cleaning procedures that avoid creating excessive dust. Vacuum when possible. Spills:

Package material and ship to World Resources Company at the address shown above.

Section 8

Respiratory Protection: NIOSH-MSHA approved respirators as required. Other Protective Equipment: coveralls are recommended but not required.

Eye Protection: safety glasses are recommended. Hand Protection: gloves are recommended.

Section 9

Generator's Verification

This MSDS describes the recyclable material listed in the attached

Manifest Number:

★Signature ★

Date **1**

Alaskan Copper Works

P.O. Box 3546, Seattle, WA 98124

★Company Name and Address★

206-382-8379

★Telephone ★



GENERAL INTERNAL PURCHASE REQUISITION

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GENERAL INTERNAL PURCHASE REQUISITION

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